

10/087,066

=> d his

(FILE 'HOME' ENTERED AT 17:04:24 ON 12 DEC 2002) ✓

FILE 'REGISTRY' ENTERED AT 17:04:29 ON 12 DEC 2002

L1           STRUCTURE UPLOADED  
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L3           902 S L1 SSS FUL

FILE 'CAPLUS' ENTERED AT 17:06:45 ON 12 DEC 2002

L4           224 S L3  
L5           131645 S HERBICID? OR AGRIC? OR AGRONOM?  
L6           11 S L4 AND L5

FILE 'CAOLD' ENTERED AT 17:10:02 ON 12 DEC 2002

=> s 13  
L7           0 L3

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.38	197.15
DISCOUNT AMOUNTS" (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-6.82

STN INTERNATIONAL LOGOFF AT 17:10:32 ON 12 DEC 2002

L6 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1995:665000 CAPLUS  
 DN 123:55906  
 TI Picolinic acid derivatives and their **herbicidal** compositions  
 IN Takabe, Fumiaki; Saito, Yoshihiro; Tamaru, Masatoshi; Tachikawa,  
 Shigehiko; Hanai, Ryo  
 PA Kumiai Chemical Industry Co., Ltd., Japan; Ihara Chemical Industry Co.,  
 Ltd.  
 SO U.S., 19 pp. Cont.-in-part of U.S. Ser. No. 842,163, abandoned.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5391537	A	19950221	US 1992-960844	19921014
	US 5403816	A	19950404	US 1993-48516	19930420
PRAI	JP 1990-288180	A	19901025		
	US 1992-842163	B2	19920331		
	JP 1992-129376	A	19920423		
	US 1992-960844	A2	19921014		

OS MARPAT 123:55906

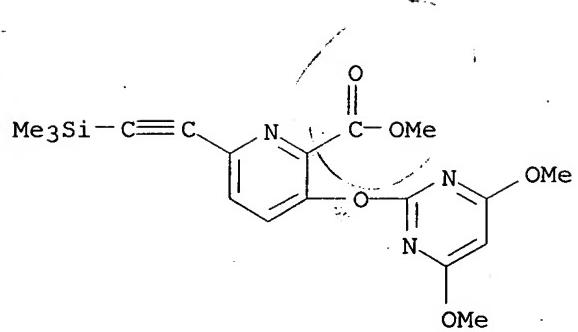
AB The present invention is to provide a novel picolinic acid deriv. having the formula I or a salt thereof wherein R is a hydrogen atom, a (C1-C4) alkyl group, a (C2-C4) alkenyl group, a (C2-C4) alkynyl group, a benzyl group, a halogen-substituted (C1-C4) alkyl group, a cyano (C1-C4) alkyl group, a (C1-C4) alkoxy (C1-C4) alkyl group, a (C1-C4) alkoxy carbonyloxy (C1-C4) alkyl group, a (C1-C4) alkyl group, a cyclo (C4-C7) alkylcarbonyloxy (C1-C4) alkyl group, a cyclo (C3-C6) alkyl (C1-C4) alkyl group, an alkali metal atom selected from the group consisting of sodium and potassium, an alkali earth metal atom or an org. amine cation selected from the group consisting of a (C1-C4) alkylamino and a di-(C1-C4) alkylamine; R1 and R2 are the same or different, and are a (C1-C4) alkyl group, a (C1-C4) alkoxy group, a halogen atom, a halogen-substituted (C1-C4) alkoxy group or a (C1-C4) alkylsulfonyl group; X = NR3R4 wherein R3, R4 are the same or different and are, e.g., H, C1-4 alkyl, Ph; Y = O, NR5 wherein R5 is a hydrogen atom or a formyl group; and n is 0 or 1; provided that when X is a hydrogen atom, Y is a group having the formula NCHO; a method for prep. the same; and a **herbicidal** compn. contg. the same as an active ingredient. The picolinic acid deriv. or the salt thereof of the present invention achieves an excellent **herbicidal** effect at a low dosage, and is effective for controlling the growth of various weeds in a wide range. The picolinic acid deriv. or the salt thereof of the present invention can be applied to a paddy field, a cultivated field, a non-agricultural land and the like as a **herbicidal** compn. Thus, e.g., reaction of Me 6-(N,N-dimethylamino)-3-hydroxypicolinate with 4,6-dimethoxy-2-methylsulfonylpyrimidine afforded Me 3-(4,6-dimethoxypyrimidin-2-yl)oxy-6-(N,N-dimethylamino)picolinate in 66% yield which showed at least 90% growth control of barnyardgrass, monochoria, and bulrush.

IT 143941-12-2P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (**herbicidal** picolinic acid derivs.)

RN 143941-12-2 CAPLUS

CN 2-Pyridinecarboxylic acid, 3-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-6-[(trimethylsilyl)ethynyl]-, methyl ester (9CI) (CA INDEX NAME)

10/087,066



L6 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:294598 CAPLUS  
 DN 126:277476  
 TI Preparation of pyrazole compounds as agrohorticultural fungicides  
 IN Hagiwara, Kenji; Suzuki, Hiroshi; Takada, Mitsumasa; Iihama, Teruyuki;  
 Sano, Shinsuke; Shimoda, Susumu  
 PA Nippon Soda Co., Ltd., Japan; Hagiwara, Kenji; Suzuki, Hiroshi; Takada,  
 Mitsumasa; Iihama, Teruyuki; Sano, Shinsuke; Shimoda, Susumu  
 SO PCT Int. Appl., 85 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9711943	A1	19970403	WO 1996-JP2776	19960926
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
	AU 9670954	A1	19970417	AU 1996-70954	19960926

PRAI JP 1995-271807 19950926  
 JP 1996-31277 19960125  
 JP 1996-157511 19960529  
 WO 1996-JP2776 19960926

OS MARPAT 126:277476

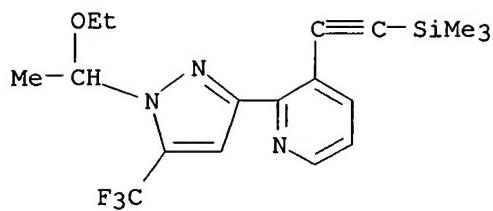
AB The title compds. (I; R1 = C1-6 haloalkyl or alkoxy carbonyl, cyano, etc.; R2 = H, a metal atom, C1-6 alkyl or alkoxy, etc.; X = H, halo, NO<sub>2</sub>, C1-6 alkyl, etc.; Ar = 2-pyridyl, 2-pyrazyl, 2-pyrimidyl, or 2-thiazolyl group, these groups being optionally substituted with halo, C1-6 alkyl, C1-6 alkenyl, C1-6 alkynyl, C3-5 cycloalkyl, C1-6 alkoxy, C1-6 haloalkyl, etc., excluding the case wherein R1 = CF<sub>3</sub>, Ar = 2-pyridyl, X = R2 = H) and salts thereof are prep'd. I, having an excellent fungicidal activity, are useful for agriculture and horticulture. Thus, pyridine deriv. (II) was reacted with N<sub>2</sub>H<sub>4</sub> in AcOH to give the title compd. (III). III at 200 ppm showed > 75% fungicidal effect for Botrytis cinerea.

IT 188918-62-9P 188918-63-0P 188918-64-1P  
 188918-65-2P 188919-61-1P 188920-07-2P  
 188920-09-4P 188920-18-5P 188920-27-6P  
 188920-39-0P 188920-41-4P 188920-45-8P  
 188920-51-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of pyrazole compds. as agrohorticultural fungicides)

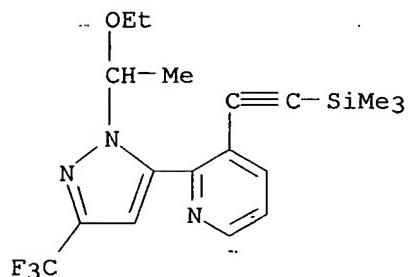
RN 188918-62-9 CAPLUS

CN Pyridine, 2-[1-(1-ethoxyethyl)-5-(trifluoromethyl)-1H-pyrazol-3-yl]-3-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



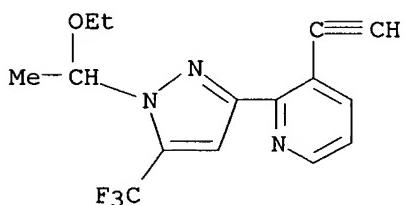
RN 188918-63-0 CAPLUS

CN Pyridine, 2-[1-(1-ethoxyethyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-3-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



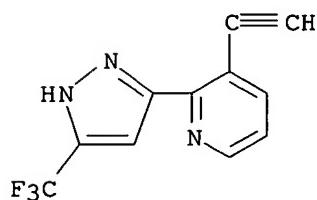
RN 188918-64-1 CAPLUS

CN Pyridine, 2-[1-(1-ethoxyethyl)-5-(trifluoromethyl)-1H-pyrazol-3-yl]-3-ethynyl- (9CI) (CA INDEX NAME)



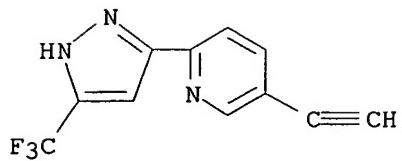
RN 188918-65-2 CAPLUS

CN Pyridine, 3-ethynyl-2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

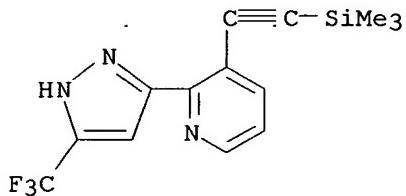


RN 188919-61-1 CAPLUS

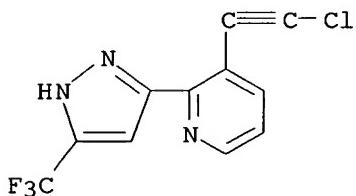
CN Pyridine, 5-ethynyl-2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



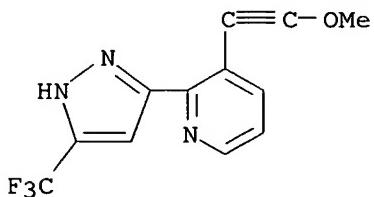
RN 188920-07-2 CAPLUS  
 CN Pyridine, 2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]-3-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



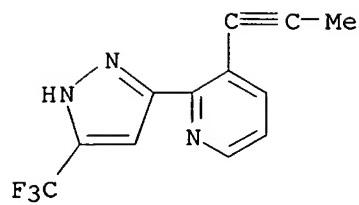
RN 188920-09-4 CAPLUS  
 CN Pyridine, 3-(chloroethynyl)-2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



RN 188920-18-5 CAPLUS  
 CN Pyridine, 3-(methoxyethynyl)-2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



RN 188920-27-6 CAPLUS  
 CN Pyridine, 3-(1-propynyl)-2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



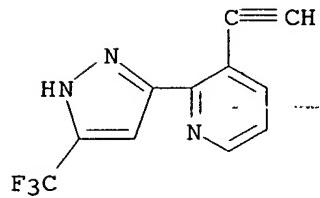
RN 188920-39-0 CAPLUS

CN Pyridine, 3-ethynyl-2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 188918-65-2

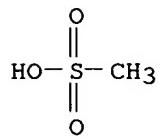
CMF C11 H6 F3 N3



CM 2

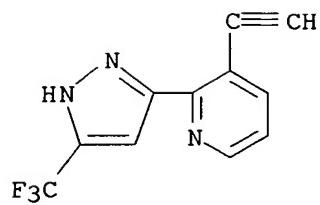
CRN 75-75-2

CMF C H4 O3 S



RN 188920-41-4 CAPLUS

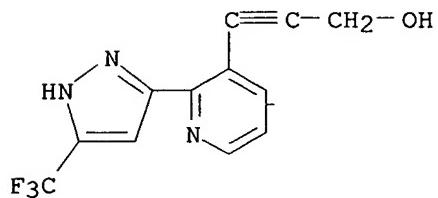
CN Pyridine, 3-ethynyl-2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

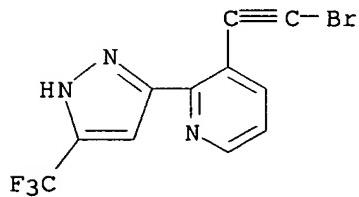
RN 188920-45-8 CAPLUS

CN 2-Propyn-1-ol, 3-[2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]-3-pyridinyl]- (9CI) (CA INDEX NAME)



RN 188920-51-6 CAPLUS

CN Pyridine, 3-(bromoethynyl)-2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

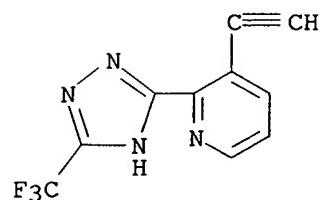


L6 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1999:64794 CAPLUS  
 DN 130:95555  
 TI Preparation of 5-(2-pyridyl)-1,2,4-triazole compounds as agricultural and horticultural germicides  
 IN Hagiwara, Kenji; Aihara, Toshio; Tanigawa, Hisashi; Sano, Shinsuke; Shimoda, Susumu; Sano, Hiroshi  
 PA Nippon Soda Co., Ltd., Japan  
 SO PCT Int. Appl., 55 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

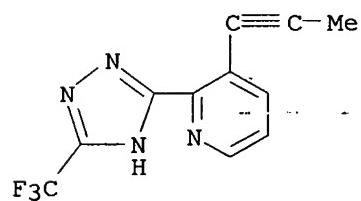
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9902518	A1	19990121	WO 1998-JP3085	19980709
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9881278	A1	19990208	AU 1998-81278	19980709
PRAI	JP 1997-202546		19970711		
	JP 1997-285851		19971017		
	WO 1998-JP3085		19980709		
OS	CASREACT 130:95555; MARPAT 130:95555				
AB	Pyridyltriazole compds. of general formula (I) [wherein X is cyano, CHO, halogeno, C1-6 haloalkyl, thiocarbamoyl, hydroxyiminomethyl, or C1-6 alkoxyiminomethyl; Y is H, cyano, NO <sub>2</sub> , halo, C1-15 alkyl, C1-6 alkoxy, C1-6 haloalkyl, C2-6 alkenyl, C2-6 haloalkenyl, C2-6 alkynyl, di(C1-6 alkyl)amino, C3-6 cycloalkyl, C3-6 cycloalkylmethyl, C1-6 alkylthio, C1-6 alkylsulfinyl, C1-6 alkylsulfonyl, hydroxy-C1-6 alkyl, C1-6 alkoxyiminomethyl, or C1-6 alkoxyimethyleneamino; and R is hydrogen, C1-6 alkylcarbonyl, C1-6 alkylcarbonyloxy-C1-4 alkyl, C1-6 alkoxy-C1-4 alkyl, C1-6 alkoxycarbonyl, C1-6 alkylsulfonyl, di(C1-6 alkyl)carbamoyl, di(C1-6 alkyl)sulfamoyl, C7-12 aralkylcarbonyloxy-C1-4 alkyl, or optionally substituted benzoyl or benzyloxy-C1-4 alkyl; n = 1-4] are prep'd. by cyclocondensation of 2-cyanopyridines (II; Y, n = same as above) with N-(C1-6 haloalkylcarbonyl)hydrazine X1CONHNH <sub>2</sub> (X1 = C1-6 haloalkyl). They are prep'd. in an industrially advantageous manner and are safely and effectively used as agrochem. fungicides. Thus, 0.28 g 28% NaOMe in MeOH was added dropwise to a mixt. of 0.71 g 5-cyclopropyl-2-cyanopyridine, 0.72 g N-(trifluoroacetyl)hydrazine hydrate, and 10 mL ethanol, refluxed for 1 h, and after distg. off the solvent, heated at 130.degree. overnight to give the title compd. (III). III at 200 ppm controlled .gtoreq. 75% Venturia inaequalis in apple seedlings, Botrytis cinerea on cucumber seedlings, Plasmopara viticola on grape vine seedlings, and Erysiphe graminis f.sp. tritici on wheat seedlings.				
IT	219508-41-5P 219508-45-9P 219508-69-7P 219509-25-8P 219509-46-3P				
	RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of pyridyltriazole compds. by cyclocondensation of cyanopyridines with (haloalkylcarbonyl) hydrazine as				

agricultural and horticultural germicides)

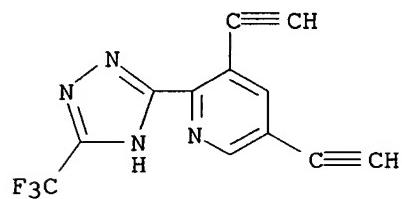
RN 219508-41-5 CAPLUS  
 CN Pyridine, 3-ethynyl-2-[5-(trifluoromethyl)-1H-1,2,4-triazol-3-yl]- (9CI)  
 (CA INDEX NAME)



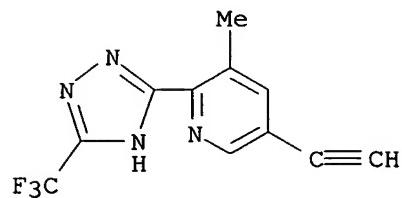
RN 219508-45-9 CAPLUS  
 CN Pyridine, 3-(1-propynyl)-2-[5-(trifluoromethyl)-1H-1,2,4-triazol-3-yl]- (9CI) (CA INDEX NAME)



RN 219508-69-7 CAPLUS  
 CN Pyridine, 3,5-diethynyl-2-[5-(trifluoromethyl)-1H-1,2,4-triazol-3-yl]- (9CI) (CA INDEX NAME)

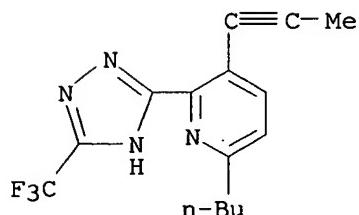


RN 219509-25-8 CAPLUS  
 CN Pyridine, 5-ethynyl-3-methyl-2-[5-(trifluoromethyl)-1H-1,2,4-triazol-3-yl]- (9CI) (CA INDEX NAME)



RN 219509-46-3 CAPLUS

CN Pyridine, 6-butyl-3-(1-propynyl)-2-[5-(trifluoromethyl)-1H-1,2,4-triazol-3-yl]- (9CI) (CA INDEX NAME)

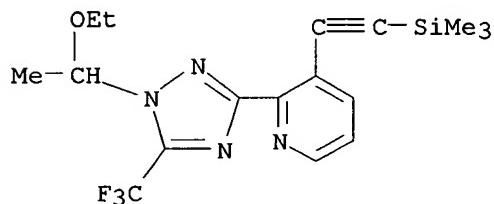


IT 219509-69-0P 219509-70-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. of pyridyltriazole compds. by cyclocondensation of cyanopyridines with (haloalkylcarbonyl) hydrazine as agricultural and horticultural germicides)

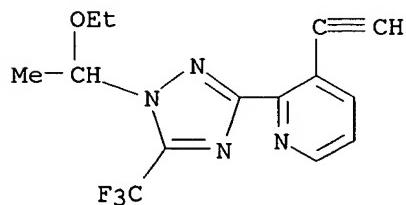
RN 219509-69-0 CAPLUS

CN Pyridine, 2-[1-(1-ethoxyethyl)-5-(trifluoromethyl)-1H-1,2,4-triazol-3-yl]-3-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



RN 219509-70-3 CAPLUS

CN Pyridine, 2-[1-(1-ethoxyethyl)-5-(trifluoromethyl)-1H-1,2,4-triazol-3-yl]-3-ethynyl- (9CI) (CA INDEX NAME)



RE.CNT 28

THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/087,066

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(FILE 'HOME' ENTERED AT 17:16:44 ON 12 DEC 2002)

FILE 'REGISTRY' ENTERED AT 17:16:49 ON 12 DEC 2002

L1           STRUCTURE UPLOADED  
L2         26 S L1 SSS SAM  
L3           STRUCTURE UPLOADED  
L4         6 S L3 SSS SAM  
L5       138 S L3 SSS FUL

FILE 'CAPLUS' ENTERED AT 17:21:02 ON 12 DEC 2002

L6       50 S L5

FILE 'CAOLD' ENTERED AT 17:22:01 ON 12 DEC 2002

=> s 15  
L7       0 L5

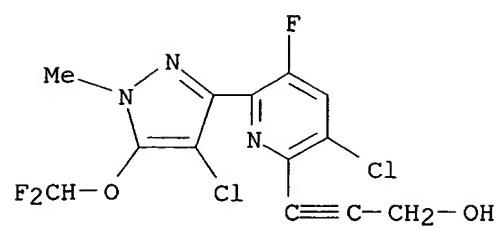
=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.38	363.39
DISCOUNT AMOUNTS" (FOR 'QUALIFYING ACCOUNTS')	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-30.98

STN INTERNATIONAL LOGOFF AT 17:22:13 ON 12 DEC 2002

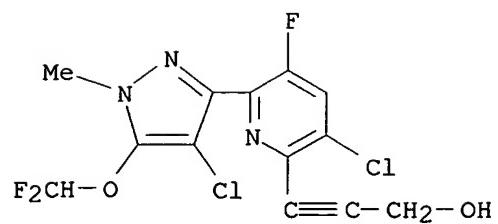
L6 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1998:341557 CAPLUS  
 DN 129:27898  
 TI Preparation of pyridylpyrazoles as **herbicides**  
 IN Nebel, Kurt; Brunner, Hans-Georg; Schurter, Rolf  
 PA Novartis A.-G., Switz.; Nebel, Kurt; Brunner, Hans-Georg; Schurter, Rolf  
 SO PCT Int. Appl., 181 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

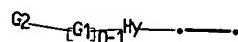
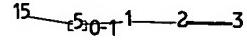
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PI	WO 9821199	A2	19980522	WO 1997-EP6243	19971110
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9855514	A1	19980603	AU 1998-55514	19971110
	AU 725228	B2	20001012		
	EP 941222	A2	I99909T5	EP 1997-951878	19971110
	R: CH, DE, ES, FR, GB, IT, LI				
	CN 1237166	A	19991201	CN 1997-199634	19971110
	BR 9713027	A	20000125	BR 1997-13027	19971110
	JP 2001503762	T2	20010321	JP 1998-522159	19971110
	ZA 9710127	A	19980512	ZA 1997-10127	19971111
	US 6204221	B1	20010320	US 1999-297783	19990507
	KR 2000053201	A	20000825	KR 1999-704168	19990511
PRAI	CH 1996-2797	A	19961112		
	WO 1997-EP6243	W	19971110		
OS	MARPAT 129:27898				
AB	Title compds. I (in which A = N, N:O; R = H, Cl, CH <sub>3</sub> , etc.; R <sub>1</sub> = H, F, Cl, CHO, NO <sub>2</sub> , etc.; R <sub>2</sub> = H, CH <sub>3</sub> , OCH <sub>3</sub> , OCH <sub>2</sub> CCH, etc.; R <sub>3</sub> = H, CH <sub>3</sub> , alkyl, etc. R <sub>4</sub> = OCF <sub>3</sub> , CF <sub>3</sub> , CN, SOCH <sub>3</sub> , COOH, etc.; R <sub>5</sub> = Cl, Br, CHO, etc.) as well as agrochem. tolerated salts and stereoisomers of these compds. are prep'd. through carboxylation, rearrangement, esterification, etc. The formulation examples of emulsion, wettable powders, and granules of these compds. as <b>herbicidal</b> substances were described.				
IT	207994-44-3P				
	RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of pyridylpyrazoles as <b>herbicides</b> )				
RN	207994-44-3 CAPLUS				
CN	2-Propyn-1-ol, 3-[3-chloro-6-[4-chloro-5-(difluoromethoxy)-1-methyl-1H-pyrazol-3-yl]-5-fluoro-2-pyridinyl]- (9CI) (CA INDEX NAME)				



L6 ANSWER 19 OF 50 CAPLUS COPYRIGHT 2002 ACS  
 AN 1998:341557 CAPLUS  
 DN 129:27898  
 TI Preparation of pyridylpyrazoles as herbicides  
 IN Nebel, Kurt; Brunner, Hans-Georg; Schurter, Rolf  
 PA Novartis A.-G., Switz.; Nebel, Kurt; Brunner, Hans-Georg; Schurter, Rolf  
 SO PCT Int. Appl., 181 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9821199	A2	19980522	WO 1997-EP6243	19971110
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9855514	A1	19980603	AU 1998-55514	19971110
	AU 725228	B2	20001012		
	EP 941222	A2	19990915	EP 1997-951878	19971110
	R: CH, DE, ES, FR, GB, IT, LI				
	CN 1237166	A	19991201	CN 1997-199634	19971110
	BR 9713027	A	20000125	BR 1997-13027	19971110
	JP 2001503762	T2	20010321	JP 1998-522159	19971110
	ZA 9710127	A	19980512	ZA 1997-10127	19971111
	US 6204221	B1	20010320	US 1999-297783	19990507
	KR 2000053201	A	20000825	KR 1999-704168	19990511
PRAI	CH 1996-2797	A	19961112		
	WO 1997-EP6243	W	19971110		
OS	MARPAT 129:27898				
AB	Title compds. I (in which A = N, N:O; R = H, Cl, CH <sub>3</sub> , etc.; R <sub>1</sub> = H, F, Cl, CHO, NO <sub>2</sub> , etc.; R <sub>2</sub> = H, CH <sub>3</sub> , OCH <sub>3</sub> , OCH <sub>2</sub> CCH, etc.; R <sub>3</sub> = H, CH <sub>3</sub> , alkyl, etc. R <sub>4</sub> = OCF <sub>3</sub> , CF <sub>3</sub> , CN, SOCH <sub>3</sub> , COOH, etc.; R <sub>5</sub> = Cl, Br, CHO, etc.) as well as agrochem. tolerated salts and stereoisomers of these compds. are prep'd. through carboxylation, rearrangement, esterification, etc. The formulation examples of emulsion, wettable powders, and granules of these compds. as herbicidal substances were described.				
IT	<b>207994-44-3P</b> RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of pyridylpyrazoles as herbicides)				
RN	207994-44-3 CAPLUS				
CN	2-Propyn-1-ol, 3-[3-chloro-6-[4-chloro-5-(difluoromethoxy)-1-methyl-1H-pyrazol-3-yl]-5-fluoro-2-pyridinyl]- (9CI) (CA INDEX NAME)				



$\alpha^3$  $\text{H}\alpha^1$  $\text{H}\alpha^2$  $\alpha^3$  $\alpha^1$  $\alpha^2$ 

chain nodes :  
 1 2 3 5 6 7 8 15  
 chain bonds :  
 1-2 1-5 2-3 5-15  
 exact/norm bonds :  
 1-2 1-5 5-15  
 exact bonds :  
 2-3

G1:O,S

G2:[\*1], [\*2], [\*3]

Match level :  
 1:Atom 2:CLASS 3:CLASS 5:CLASS 6:Atom 7:Atom 8:Atom 15:CLASS

Generic attributes :

1:  
 Saturation : Unsaturated  
 Number of Carbon Atoms : less than 7  
 Number of Hetero Atoms : less than 2  
 Type of Ring System : Monocyclic  
 6:  
 Saturation : Unsaturated  
 Number of Carbon Atoms : less than 7  
 Type of Ring System : Monocyclic  
 7:  
 Saturation : Unsaturated  
 Number of Carbon Atoms : less than 7  
 Number of Hetero Atoms : less than 2  
 Type of Ring System : Monocyclic  
 8:

Saturation

: Unsaturated

Element Count :

Node 1: Limited  
C,C5  
N,N1  
O,O0  
S,S0

Node 6: Limited

N,N1  
C,C1-5  
S,S0  
O,O0

Node 7: Limited

C,C4  
S,S1  
O,O0  
N,N0

10/087,066

=>  
Uploading 10087066.str  
L1 STRUCTURE uploaded

=> d l1  
L1 HAS NO ANSWERS  
L1 STR  
3  
Cb

Hy 1

Hy 2

G2  
[G1] 0-1 Hy  
G1 O,S  
G2 [@1],[@2],[@3]

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam  
SAMPLE SEARCH INITIATED 17:04:52 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 16494 TO ITERATE

6.1% PROCESSED 1000 ITERATIONS 0 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 322203 TO 337557  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss ful  
FULL SEARCH INITIATED 17:06:06 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 332308 TO ITERATE

100.0% PROCESSED 332308 ITERATIONS 902 ANSWERS  
SEARCH TIME: 00.00.05

L3            902 SEA SSS FUL L1  
=> s 13  
L4            224 L3  
  
=> s herbicid? or agric? or agronom?  
    76646 HERBICID?  
    54068 AGRIC?  
    4401 AGRONOM?  
L5            131645 HERBICID? OR AGRIC? OR AGRONOM?  
  
=> s l4 and l5  
L6            11 L4 AND L5  
  
=> d 16 1-11 bib,ab,hitstr

L6 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 2002:693101 CAPLUS  
 DN 137:212312  
 TI **Herbicidal 2-alkynyl-pyri(mi)dines**  
 IN Maier, Thomas  
 PA BASF Aktiengesellschaft, Germany  
 SO Eur. Pat. Appl., 28 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1238586	A1	20020911	EP 2002-3518	20020215
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2002322006	A2	20021108	JP 2002-59386	20020305
PRAI	US 2001-274755P	P	20010309	Pnov.	
OS	MARPAT 137:212312				

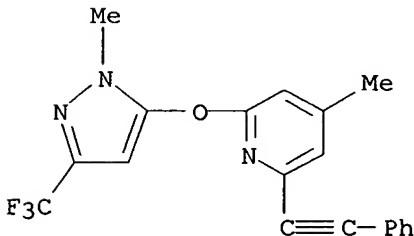
AB A method of combating undesired plant growth at a locus comprises application to the locus of an effective amt. of at least one compd. I (R1 = (un)substituted alkyl, alkenyl, alkynyl, alkoxy, alkoxyalkyl, alkoxyalkoxy, haloalkyl, haloalkoxy, cyano, nitro, SF5, etc.; R3 = H, formyl, (un)substituted alkyl, alkenyl, trihydrocarbylsilyl, aryl, (un)substituted 5- or 6-membered nitrogen-contg. heteroarom. group; A = (un)substituted aryl, (un)substituted 5- or 6-membered nitrogen-contg. heteroarom. group, or (un)substituted thieryl; Z = O, S or single bond; X = N or CR2 (R2 = H, or R2 = R1); m = 0, 1, or 2) and the **agronomically acceptable salts or N-oxides thereof, or herbicidal compns. contg. such compds. as active ingredients.**

IT 457057-31-7 457057-33-9 457057-34-0  
 457057-35-1 457057-36-2 457057-37-3  
 457057-40-8

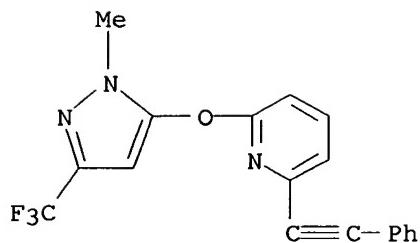
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (herbicide)

RN 457057-31-7 CAPLUS

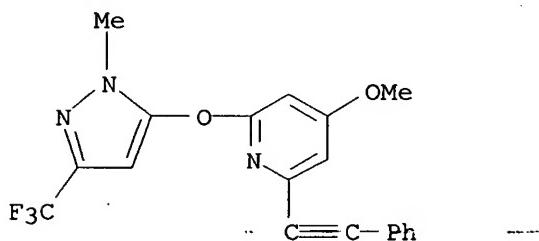
CN Pyridine, 4-methyl-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(phenylethyynyl)- (9CI) (CA INDEX NAME)



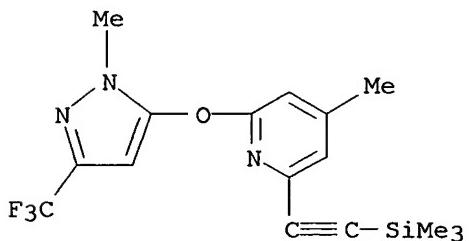
RN 457057-33-9 CAPLUS  
 CN Pyridine, 2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(phenylethyynyl)- (9CI) (CA INDEX NAME)



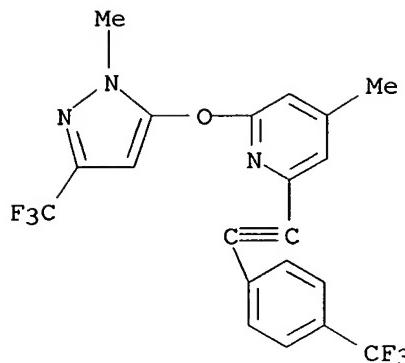
RN 457057-34-0 CAPLUS  
 CN Pyridine, 4-methoxy-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(phenylethyynyl)- (9CI) (CA INDEX NAME)



RN 457057-35-1 CAPLUS  
 CN Pyridine, 4-methyl-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)

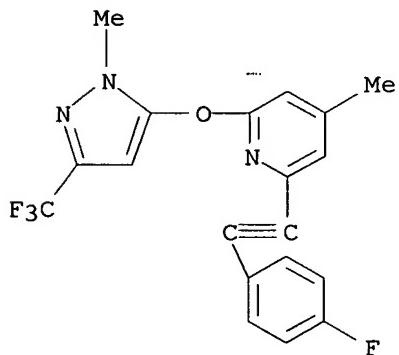


RN 457057-36-2 CAPLUS  
 CN Pyridine, 4-methyl-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-[[4-(trifluoromethyl)phenyl]ethynyl]- (9CI) (CA INDEX NAME)



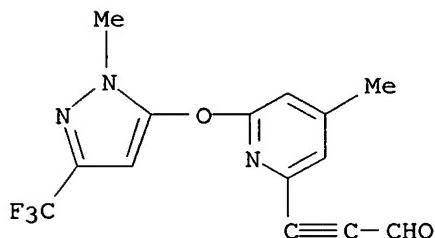
RN 457057-37-3 CAPLUS

CN Pyridine, 2-[(4-fluorophenyl)ethynyl]-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



RN 457057-40-8 CAPLUS

CN 2-Propynal, 3-[4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-pyridinyl]- (9CI) (CA INDEX NAME)



IT 457057-38-4 457057-39-5

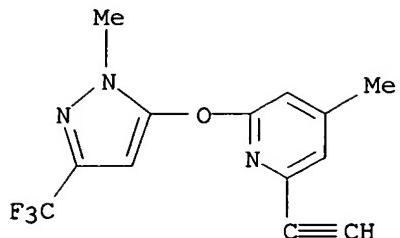
RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)

(herbicide)

RN 457057-38-4 CAPLUS

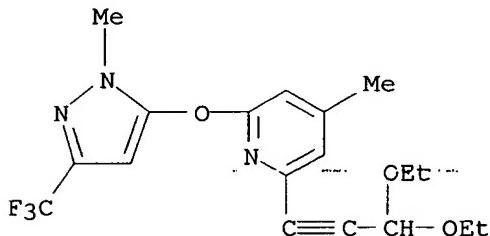
CN Pyridine, 2-ethynyl-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-

yl]oxy]- (9CI) (CA INDEX NAME)



RN 457057-39-5 CAPLUS

CN Pyridine, 2-(3,3-diethoxy-1-propynyl)-4-methyl-6-[(1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl)oxy]- (9CI) (CA INDEX NAME)

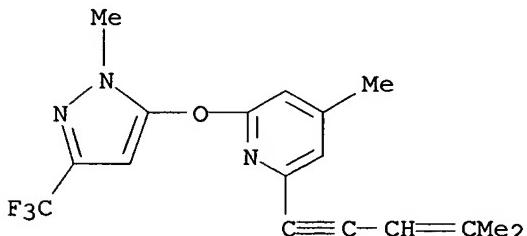


IT 457057-41-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. as **herbicide**)

RN 457057-41-9 CAPLUS

CN Pyridine, 4-methyl-2-(4-methyl-3-penten-1-ynyl)-6-[(1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl)oxy]- (9CI) (CA INDEX NAME)



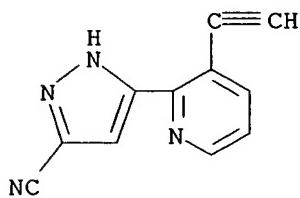
RE.CNT 5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1998:650966 CAPLUS  
 DN 129:330725  
 TI Preparation of pyridylpyrazoles as microbicides for **agriculture**  
 and **gardening**  
 IN Hagiwara, Kenji; Takada, Mitsumasa; Iihama, Teruyuki; Sano, Shinsuke;  
 Shimoda, Susumu; Horikoshi, Yuji  
 PA Nippon Soda Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 23 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese

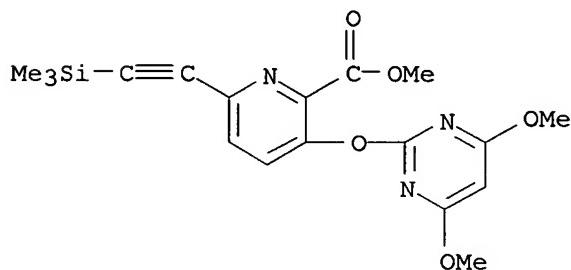
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10265471	A2	19981006	JP 1997-85878	19970319
OS	MARPAT 129:330725				
AB	Title compds. I (X = H, halo, cyano, C1-6 (halo)alkyl, etc.; R = H, metal, C1-6 alkylcarbonyl, C1-6 alkylcarbonyloxymethyl, etc.; R substitutes N in pyrazole ring; Z = halo, cyano, C1-6 (halo)alkyl, C 2-6 alkenyl, etc.; m = 1-4) or their salts are prepd. and a part of them are prepd. by reaction of pyridylpyrazoles II [A = (R1O)2CH; X1 = H, C1-6 alkyl; R1 = C1-6 alkyl; Z, m = same as I] with hydroxylamine and dehydration of II (A = HON:CH; X1, Z, m = same as above). 3-Diethoxymethyl-5-(3-chloro-2-pyridyl)pyrazole (prepn. given) was reacted with hydroxylamine hydrochloride in EtOH under reflux for 4 h to give 65% 3-hydroxyiminomethyl-5-(3-chloro-2-pyridyl)pyrazole, which was dehydrated with Ac2O at 110.degree. for 4 h to give 77% 3-cyano-5-(3-chloro-2-pyridyl)pyrazole. The compd. showed good microbical activity on crops.				
IT	<b>215234-47-2P</b> RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of pyridylpyrazoles by imination of alkoxyimethylpyridylpyrazoles and dehydration)				
RN	215234-47-2 CAPLUS				
CN	1H-Pyrazole-3-carbonitrile, 5-(3-ethynyl-2-pyridinyl)- (9CI) (CA INDEX NAME)				



L6 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1995:380295 CAPLUS  
 DN 122:160668  
 TI Preparation of picolinic acid derivatives as **herbicides**  
 IN Takabe, Fumiaki; Saito, Yoshihiro; Tamaru, Masatoshi; Tachikawa,  
     Shigehiko; Yoshida, Ryo  
 PA Kumiai Chemical Industry Co, Japan; Ihara Chemical Ind Co  
 SO Jpn. Kokai Tokkyo Koho, 34 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06316574 JP 2779720	A2 B2	19941115 19980723	JP 1991-302644	19911023
OS	CASREACT 122:160668; MARPAT 122:160668				
AB	Title compds. I [R1 = H, alkyl, alkenyl, alkynyl, benzyl, haloalkyl, cyanoalkyl, etc.; R2 = H, alkyl, alkoxy, halo, haloalkoxy, alkylsulfonyl, R ; X = (un)substituted amino, etc.; Y = O, S, (un)substituted imino; n = 0, 1] are prep'd. Thus, Me 6-(dimethylamino)-3-hydroxypicolinate was treated with 4,6-dimethoxy-2-(methylsulfonyl)pyrimidine in DMF contg. K <sub>2</sub> CO <sub>3</sub> was heated at 90.degree. for 2 h to give 66% the title compd. I [X = 6-dimethylamino, Y = O, R = Me, R1 = R2 = MeO, n = 0]. This at 100 g/10 are effected 100% kill against Cyperus difformis.				
IT	<b>143941-12-2P</b>				
	RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of picolinic acid derivs. as <b>herbicides</b> )				
RN	143941-12-2 CAPLUS				
CN	2-Pyridinecarboxylic acid, 3-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-6-[(trimethylsilyl)ethynyl]-, methyl ester (9CI) (CA INDEX NAME)				



Same as #6

L6 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1994:8609 CAPLUS  
 DN 120:8609  
 TI Preparation of (pyrimidinyl)picolinic acid analogs as  
*herbicides*  
 IN Takabe, Fumiaki; Saito, Yoshihiro; Tamari, Masatoshi; Tachikawa,  
 Shigehiko; Hanai, Ryo  
 PA Kumiai Chemical Industry Co., Ltd., Japan; Ihara Chemical Industry Co.,  
 Ltd.  
 SO PCT Int. Appl., 49 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9312109	A1	19930624	WO 1991-JP1725	19911218
	W: BR, HU, PL, RO, SU				
	HU 64321	A2	19931228	HU 1992-1294	19911218
	HU 213623	B	19970828		
	BR 9106704	A	19940322	BR 1991-6704	19911218
	RO 109848	B1	19950630	RO 1927-92205	19911218
	RO 109848	B1	19950630	RO 1992-527	19911218
	PL 169374	B1	19960731	PL 1991-295868	19911218
	RU 2091380	CI	19970927	RU 1991-5011967	19911218

PRAI WO 1991-JP1725 A 19911218

OS MARPAT 120:8609

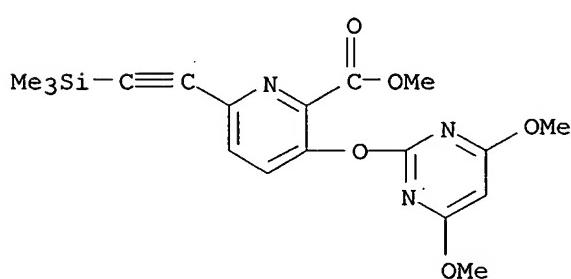
AB Title compds. I [R = H, alkyl, alkenyl, benzyl, haloalkyl, etc.; R1, R2 = alkyl, alkoxy, halo, haloalkoxy, alkylsulfonyl; X = (un)substituted amino, phenoxy, haloalkyl, alkoxy, etc.; Y = O, S, (un)substituted amino; n = 0, 1] are prep'd. E.g., a mixt. of Me 6-(dimethylamino)-3-hydroxypicolinate (prepn. given), 4,6-dimethoxy-2-methylsulfonylpyrimidine, and K<sub>2</sub>CO<sub>3</sub> in DMF was heated at 90.degree. for 2 h to give 66% I [R = Me, R1 = R2 = MeO, X = 6-Me<sub>2</sub>N, Y = O, n = 0], which at 100 g/ha effect .gtoreq. 95% kill against Monochoria vaginalis. Many formulations contg. I are described.

IT 143941-12-2P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as *herbicide*)

RN 143941-12-2 CAPLUS

CN 2-Pyridinecarboxylic acid, 3-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-6-[(trimethylsilyl)ethynyl]-, methyl ester (9CI) (CA INDEX NAME)



#6  
Same as

L6 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1993:6984 CAPLUS  
 DN 118:6984  
 TI Preparation of (pyrimidinyloxy- and -thio)picolinic acid derivatives as  
**herbicides**

IN Takabe, Fumiaki; Saito, Yoshihiro; Tamaru, Masatoshi; Tachikawa,  
 Shigehiko; Hanai, Ryo  
 PA Kumiai Chemical Industry Co., Ltd., Japan; Ihara Chemical Industry Co.,  
 Ltd.  
 SO PCT Int. Appl., 47 pp.

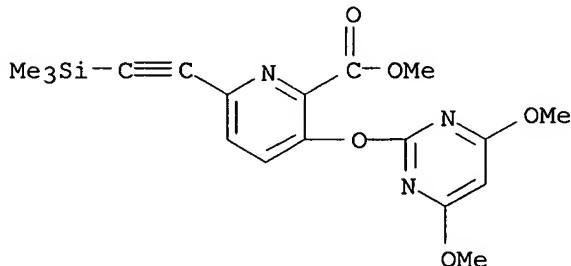
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9207846	A1	19920514	WO 1991-JP1459	19911025
	W: AU, CA, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	CA 2066641	AA	19920426	CA 1991-2066641	19911025
	AU 9187473	A1	19920526	AU 1991-87473	19911025
	AU 640283	B2	19930819		
	EP 507962	A1	19921014	EP 1991-918910	19911025
	EP 507962	B1	20010613		
	R: DE, FR, GB				
PRAI	JP 1990-288180	A	19901025		
	WO 1991-JP1459	A	19911025		
OS	MARPAT 118:6984				
AB	The title compds. [I; R = H, alkyl, etc.; R1, R2 = alkyl, alkoxy, etc.; Y = O, S, etc.; X = cyano, PhO, etc.; n = 0, 1] are prep'd. A mixt. of picolinate II, sulfone III, and K2CO3 in DMF was heated 2 h at 90.degree. to give 66% I (R = Me, R1 = R2 = MeO, X = 6-Me2N, Y = O, n = 0), which killed >90% barnyard grass, Monochoria vaginalis, and Scirpus juncoides.				
IT	143941-12-2P				
	RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as herbicide)				
RN	143941-12-2 CAPLUS				
CN	2-Pyridinecarboxylic acid, 3-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-6-[(trimethylsilyl)ethynyl]-, methyl ester (9CI) (CA INDEX NAME)				



Same on #6

L6 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1992:128680 CAPLUS  
 DN 116:128680  
 TI Preparation of 2,6-diarylpyridine derivatives as **herbicides**  
 IN Yanagi, Akihiko; Heinemann, Ulrich; Babczinski, Peter; Luerssen, Klaus;  
 Santel, Hans Joachim; Schmidt, Robert R.  
 PA Bayer A.-G., Germany  
 SO Eur. Pat. Appl., 50 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 463492	A1	19920102	EP 1991-109714	19910613
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
	DE 4020257	A1	19920102	DE 1990-4020257	19900626
	JP 04230259	A2	19920819	JP 1991-174682	19910620

PRAI DE 1990-4020257 19900626

OS MARPAT 116:128680

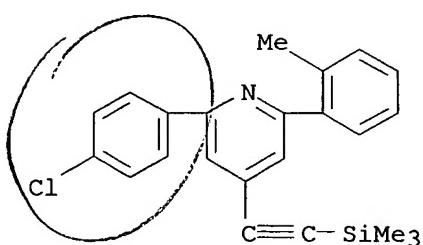
AB Diarylpyridines I [R1, R2 = H, halo, alkyl, alkoxy, haloalkyl; R3 = H, halo, cyano, alkyl, alkoxy, haloalkyl; R4, R5 = H, alkyl; Z = alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkylthio, halo, substituted amino, etc.; several specific exclusions] were prep'd. as **herbicides**, desiccants, and defoliant's (no data). Thus, 3-EtC<sub>6</sub>H<sub>4</sub>Ac was condensed with PhCOCH:C(SMe)<sub>2</sub> (prepn. given) in THF contg. KOCMe<sub>3</sub>; the product was cyclized in situ by refluxing with NH<sub>4</sub>Ac and added AcOH to give I (R1 = 3-Et, Z = SMe, other R = H). Over 100 I are listed with characterizing data.

IT 139421-28-6P 139421-29-7P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as **herbicide**)

RN 139421-28-6 CAPLUS

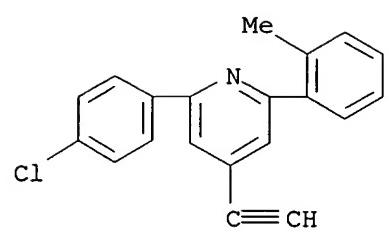
CN Pyridine, 2-(4-chlorophenyl)-6-(2-methylphenyl)-4-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



*The claimed compound can not have 2-aryl groups on the pyridine.*

RN 139421-29-7 CAPLUS

CN Pyridine, 2-(4-chlorophenyl)-4-ethynyl-6-(2-methylphenyl)- (9CI) (CA INDEX NAME)



L6 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1990:35858 CAPLUS  
 DN 112:35858  
 TI Preparation of 2-(2-imidazolin-2-yl)nicotinates as **herbicides**  
 IN Doehner, Robert Francis; Ladner, David William; Finn, John Michael  
 PA American Cyanamid Co., USA  
 SO Eur. Pat. Appl., 48 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English

## FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 322616	A2	19890705	EP 1988-120594	19881209
	EP 322616	A3	19891018		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	IL 104751	A1	19940530	IL 1988-104751	19881212
	IL 104752	A1	19940530	IL 1988-104752	19881212
	JP 02000779	A2	19900105	JP 1988-329496	19881228
	BR 8806959	A	19890829	BR 1988-6959	19881229
	ZA 8809728	A	19891025	ZA 1988-9728	19881229
	CA 1337423	A1	19951024	CA 1988-587213	19881229
	DK 8807331	A	19890701	DK 1988-7331	19881230
	AU 8827583	A1	19890706	AU 1988-27583	19881230
	AU 612750	B2	19910718		
	HU 49457	A2	19891030	HU 1988-6681	19881230
	HU 205832	B	19920728		
	KR 9705304	B1	19970415	KR 1988-18228	19881230
	AU 9177208	A1	19910808	AU 1991-77208	19910521
	US 5334576	A	19940802	US 1992-855259	19920323
	DK 9301041	A	19930917	DK 1993-1041	19930917
	DK 9301042	A	19930917	DK 1993-1042	19930917
PRAI	US 1987-139996	A	19871231		
	US 1986-889999	B2	19860728		
	IL 1988-88663	A3	19881212		
	US 1989-397699	B1	19890823		

AB The title compds. [I and II; R1 = C1-4 alkyl; R2 = C1-4 alkyl, C3-6 cycloalkyl; R1R2 = atoms to complete a (Me-substituted) C3-6 cycloalkyl ring; R3 = H, (substituted) C1-2 alkyl, C3-12 alkenyl, C3-6 cycloalkyl, C3-16 alkynyl, cation; R4 = C1-11 alkyl, C1CH2, (substituted) Ph; R5 = C1-4 alkyl, (Me-substituted) Ph; A = CO2R3, CHO, CH2OH, COMe, COPh, CN, Me, CH:NOH, CONHOH, 2-oxazolidinyl, etc.; B = H, COR4, SO2R5; W = O, S; Y, Z = H, Me, (hydroxy-substituted) C2-6 alkynyl, (substituted) C3-6 cycloalkyl, C1-4 alkyl, alkenyloxy, etc.] useful as **herbicides**, were prep'd. Thus, Me 5-bromo-2-imidazolin-2-yl) nicotinate, HC.tpbond.CC(OH)Me2, (Ph3P)2PdCl2, Ph3P, and CuCl were refluxed 72 h in Et3N to give alkynylpyridylimidazolone III. Several I at 0.5 kg/ha preemergent gave complete control of quackgrass, barnyardgrass, foxtail, velvetleaf, etc.

IT 124523-14-4P 124523-15-5P 124523-64-4P

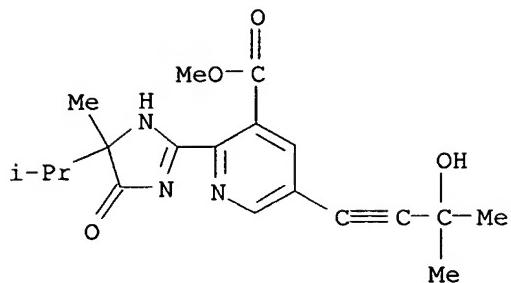
124523-65-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as **herbicide**)

RN 124523-14-4 CAPLUS

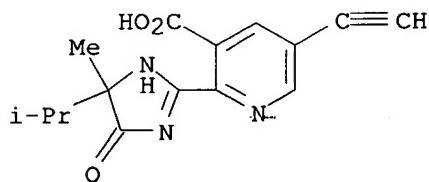
CN 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(3-hydroxy-3-methyl-1-butynyl)-, methyl ester (9CI)

(CA INDEX NAME)



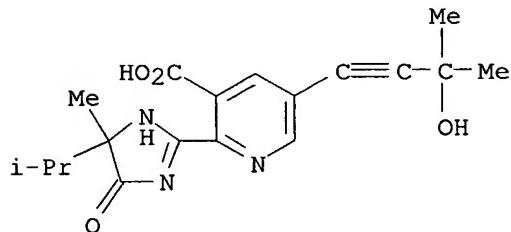
RN 124523-15-5 CAPLUS

CN 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethynyl- (9CI) (CA INDEX NAME)



RN 124523-64-4 CAPLUS

CN 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(3-hydroxy-3-methyl-1-butynyl)- (9CI) (CA INDEX NAME)



RN 124523-65-5 CAPLUS

CN 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(1-propynyl)- (9CI) (CA INDEX NAME)

